

BULLETIN
of the
ENTOMOLOGICAL SOCIETY OF AMERICA

4603 Calvert Road
College Park, Maryland 20740

TABLE OF CONTENTS
VOLUME 24

Number 1

Issued March 15, 1978

Where to Find It	Front Cover
Future National Meetings	Front Cover
Future Branch Meetings	Front Cover
Deceased Members	Front Cover
The Second Quarter Century, A Message from the President, <i>E. H. Glass</i>	1
1977 BSA Jamboree, <i>M. E. Harshbarger</i>	2
Our Immigrant Insect Fauna, <i>R. I. Sailer</i>	3
Editor's Comments, <i>W. P. Murdoch</i>	12
Integrated Pest Management, <i>A. W. Breidenbach</i>	13
USDA's Role in Pest Management Programs, <i>J. Nielson</i>	15
A Theoretical Model to Determine the Degree of Trapping Required for Insect Population Control, <i>D. E. Weidhaas and D. G. Haile</i>	18
Publication of Entomological Techniques, <i>N. C. Leppla</i>	21
A Review of Three Reports on the Subject of Taxonomic Services in Support of Environmental Protection, <i>B. F. Eldridge</i>	25
The Laboratory of Insect Pathology at the University of California: the First Decade, <i>K. M. Hughes</i>	25
Letter to the Editor	28
Estimating Southern Pine Beetle Timber Damages, <i>W. A. Leuschner, T. A. Max, G. D. Spittle, and H. W. Wisdom</i>	29
Eradication of Plant Pests—Pro's and Con's, <i>H. C. Cox</i> , Moderator	35
Eradication of Plant Pests—Con, <i>L. D. Newsom</i>	40
Eradication of Plant Pests—Con, <i>R. L. Rabb</i>	44
Eradication of Plant Pests—Pro, <i>E. F. Knipping</i>	52
Eradication of Plant Pests—Pro, <i>W. G. Eden</i>	54
Council of Entomology Department Administrators	55
A Sharp Focus on Insect Populations and Pest Management from a Wide-Area View, <i>R. L. Rabb</i>	61
IPN Institute Formed	62
The Systematic Entomology Collections of Brazil's National Institute for Amazonian Research (INPA), <i>B. C. Ratcliffe</i>	63
ESA Symposium: Entomology-Engineering Thrusts—Past, Present and Future, <i>D. B. Smith</i>	63
Interdisciplinary Programs in Insect Mass Rearing and in Insect Population Management, <i>W. Klason</i>	65
Cultural Practices, Pesticide Application, and Equipment Development as Cooperative Programs, <i>W. G. Lovely</i>	67
Entomology-Engineering Coordinated Research and Pest Management in California, <i>N. B. Ahsson</i>	67
Cooperation within and Among State Agricultural Experiment Stations—Implications for Entomologists and Engineers, <i>J. E. Halpin</i>	68

Engineer-Entomologist Cooperative Research Programs Needed to Solve Problems in Pest Management, <i>E. S. Raun</i>	70
Publication Announcement	71
ESA Honors and Awards Regulations	73
ESA Post-Convention Tour to Mexico City and Acapulco	77
ESA Officers, Editorial Boards, and Standing Committees, 1978	81
ARPE Officers, 1978	83
Report of the Auditors for 1977	84
ESA Governing Board, 1978	89
Opening Session, November 28, 1977	90
Preliminary Business Meeting	91
Final Business Meeting	92
Satellite Program in Statistical Ecology	98
Reports of Special Committees for 1977	99
Reports of Special Representatives to the Governing Board	105
NSF Support of Research Equipment	107
Reports of Standing Committees for 1977	108
"The Way We Were" Slides and Cassette	113
Reports of Editorial and Editorial Board Matter for 1977	114
ARPE Annual Meeting	117
Workshop on the History of Entomology	118
Eighth Annual Insect Photo Salon	120
Publications Received	121
Book Reviews	
Theodore D. A. Cockerell—Letters from West Cliff Colorado 1887–1889	121
An Atlas of Insect Diseases	121
A Review of Biological Control in Western and Southern Europe	122
A Tutorial Guide to the Insect Orders (Adults)	123
Artificial Diets for Insects, Mites, and Spiders	123
Grasshoppers and Locusts Vol. II	124
Annual Review of Entomology	125
Les Mirides du Cacaoyer	125
Larvae of the North American Caddisfly	127
Insect Life	127
Minutes of the 53rd Annual Meeting Entomological Society of Pennsylvania	128
Symposium at Iowa State University	129
Lost Members	129
ESA Sponsors Exhibit	129
Description of Paper Categories for Houston Meeting	130
21st National Insect (Entomologic) Photographic Salon	133
ESA Service Volunteers	135

Number 2

Issued June 15, 1978

Where to Find It	Front Cover
Future National Meetings	Front Cover
Future Branch Meetings	Front Cover
Deceased Members	Front Cover
Sampling Bark Beetle Emergence: A Review of Methodologies, A Proposal for Standardization, and a New Trap Design, <i>W. T. McClelland, F. P. Hain, C. J. DeMars, W. S. Fargo, R. N. Coulson, and T. E. Nebeker</i>	137
Voucher Specimens for Entomology in North America, <i>C. M. Yoshimoto</i>	141
A Third Set of Corrections to "A Catalog of the Diptera of America North of Mexico", <i>C. W. Sabrosky</i>	143
History of the Regional Project for Research on the European Corn Borer, <i>T. A. Brindley and W. B. Showers</i>	145
Tabular Values for the Logistic Curve, <i>R. F. Ruppel and K. Dimoff</i>	149
The Realities of the Gypsy Moth Problem in the Northeast, <i>J. D. Kegg</i>	153
Colored Background Slides from Color Film, <i>J. L. Eaton</i>	156
Estimating and Evaluating Economic Losses by White-Fringed Beetles on Peanuts, <i>J. L. Boutwell and D. L. Watson</i>	157
Editor's Comments, <i>W. P. Murdoch</i>	160
Auto-Tutorial Instruction in Entomology: Principles of Entomology (Orders), <i>D. R. Minnick and K. L. Steele</i>	161
Proposed Additions and Corrections to the Common Names of Insects and Related Organisms	163
Proposed Amendments to ESA Constitution and Bylaws	164

Women in Entomology, <i>R. von Rümker</i>	165
International Commission on Zoological Nomenclature	166
Report of the ESA Standing Committee on Systematic Resources in Entomology: Fee Charges for Identification, <i>L. M. Chilson</i>	167
Proceedings of the 26th Annual Meeting ESA Southwestern Branch	169
The Founding of the Insecticide Society of Washington, D.C. 1934, <i>F. L. Campbell</i>	171
Proceedings of the 52nd Annual Meeting ESA Southeastern Branch	173
Antixenosis—A New Term Proposed to Define Painter's "Nonpreference" Modality of Resistance, <i>M. Kogan and E. F. Ortman</i>	175
Proceedings of the 49th Annual Meeting ESA Eastern Branch	176
Worldwide Directory of Institutions with Entomologists Part I: Latin America	179
New Section of IUSSI and 1982 Congress	193
Obituary: Walter Carter 1897–1977, <i>D. G. Denning and R. F. Smith</i>	194
Minutes of the 54th Annual Meeting Central States (Kansas) Entomological Society	195
ARPE News	196
ESA Symposium: Night Vision Equipment for Studying Nocturnal Behavior of Insects, <i>P. D. Lingren</i>	197
Night Vision Equipment Developments: Where We've Been, Where We Are Today, and Where We're Going, <i>J. A. Slusher</i>	197
Night Vision Equipment: Uses in Forestry, <i>H. J. Shields</i>	201

Successful Photographic Techniques Through Night Vision Devices, B. Boogher and J. A. Slusher	203	New Zealand Insect Pests	221
Applications for Nocturnal Studies of Insects, P. D. Lingren, A. N. Sparks, J. R. Raulston, and W. W. Wolf	206	The Arthropoda Habits, Functional Morphology and Evolution	221
Second Generation Night Vision Production Reality, J. E. Barlow	212	The Insects	222
Where We Are Going in the Biological Sciences, D. A. Lindquist	213	The Circulatory System of Insects	222
Letters to the Editor	214	Arachnida	222
Lost Members	215	Pesticides in Aquatic Environment	223
Affiliates of the ESA	216	The Role of Arthropods in Forest Ecosystems	224
Publications Received	219	Biochemical Differentiation in Insect Glands	224
Book Reviews		Encyclopedia of Insects and Arachnids	225
Insects of Ornamental Plants	219	Arthropod Venoms	225
The Cockroach, Vol. II	220	Membership List—Entomological Society of America	227
		Sustaining Associates	342
		21st National Insect (Entomologic) Photographic Salon	343

Number 3

Issued September 15, 1978

Where to Find It	Front Cover	North America: 1966-1977, G. G. Kennedy	375
Future National Meetings	Front Cover	Publications Received	384
Future Branch Meetings	Front Cover	A Changing Perspective: Heliothis in Short-Season Cottons in Texas, J. W. Walker, R. E. Frisbie, and G. A. Niles	385
Deceased Members	Front Cover	<i>Trogoderma simplex</i> Infesting Synthetic Pharmaceutical Capsules East of the Rocky Mountains, M. G. Emsley	391
Program Highlights for Annual Meeting	345	Minutes of the Fifth Annual Meeting of the Xerxes Society	391
I and A Test Guidelines	355	<i>Megachile rotundata</i> (Fabricius), not <i>Megachile pacifica</i> (Panzer), is the Name of the Alfalfa Leafcutting Bee (Hymenoptera: Megachilidae), Radechffe B. Roberts	392
Editor's Comments, W. P. Murdoch	356	Factors for Consideration in Designing Short-Term Insect-Host Plant Bioassays, C. M. Smith	393
The Pesticide Paradigm, Robert L. Zimdahl	357	ARPE News	396
Salaries of Entomologists are a Professional Disgrace: a Challenge to ARPE, Perry L. Adkisson	361	A New Registry Code of Ethics	397
Graduate Training in Extension Entomology, William H. Robinson	365	Book Reviews	
Common Names Additions and Corrections	366	Fundamentals of Entomology and Plant Pathology	398
Development of a Computerized Catalog of the Buprestidae (Coleoptera) of North America, J. A. Jackman and S. G. Welton	367	The Biology of Tribolium with Special Emphasis on Genetic Aspects	398
ESA Special Committees and Representatives	370	Chemicals for Crop Protection and Pest Control	399
Inventory of Programs in Science	371	Adaptation and Speciation in the Fall Webworm	400
Bibliography of Sequential Sampling Plans for Insects, Edward P. Pieters	372		
Advanced Research Fellowships in India	374		
Recent Advances in Insect Resistance of Vegetable and Fruit Crops in			

Number 4

Issued December 15, 1978

Where to Find It	Front Cover	Implementing Biological Control Systems in Commercial Greenhouse Crops, Maurice J. Tauber and Robert G. Helgesen	424
Future National Meetings	Front Cover	ESA Election Results	426
Future Branch Meetings	Front Cover	The Use of Autotutorial Instruction in Teaching Entomology: an Open Laboratory, D. R. Minnick, K. L. Steele, and M. F. Bledsoe	427
Deceased Members	Front Cover	Publications Received	430
Highlights of Veterinary Entomology—1952-1977, Sidney E. Kuntz	401	A Bibliography of Diethyl Toluamide, L. C. Rutledge, R. K. Sofield, and M. A. Moussa	431
New Approved Common Names for Insecticides	406	Women in Entomology: A Further Note, Carl W. Schaefer	439
Note on the Establishment in Illinois of <i>Bari lepidii</i> , a Destructive European Weevil, J. K. Bouseman, D. Sherrod, C. Eastman, W. H. Luckmann, R. Randall, and C. White	407	Book Reviews	
Common Names of Insects and Related Organisms (1978 revision): An Update	408	How Insects Live	440
A Bibliography of the Imported Crucifer Weevil, <i>Bari lepidii</i> (Coleoptera: Curculionidae), J. K. Bouseman, B. Irvin, C. Eastman, and D. Sherrod	409	A Manual of Acarology	440
The Teen International Entomology Group, Roger Hoopingarner	411	Pests and Diseases	440
Observations on Africanized Honey Bees Reported to South and Central American Government Agencies, O. R. Taylor and M. D. Levin	412	Virus-Insect Relationships	441
Letter to the Editor	414	Pesticide Management and Insecticide Resistance	441
International Science and Engineering Fair	415	Immunity to Blood Parasites of Animals and Man	442
Report of the Standing Committee on Systematics Resources in Entomology: Proposal for a General Protocol for Submitting Specimens for Identification, Lloyd Knutson	416	A Compendium of the Biographical Literature on Deceased Entomologists	443
Approaches Toward Possible Pest Management of the Imported Fire Ants, William F. Buren, George E. Allen, and Roger N. Williams	418	Handbook of Common New Guinea Beetles	443
Proceedings of the 62nd Annual Meeting Pacific Branch	421	Quality Control, An Idea Book for Fruit Fly Workers	444
		America's Master of Bee Culture, The Life of L. L. Langstroth	445
		ARPE	447
		Statement of Ownership, Management, and Circulation	448
		19th North Central Insect Photographic Salon	449
		Table of Contents for Volume 24	451

